

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

690 Walnut Ave.St. 150

Vallejo, CA 94592-1133

(707) 649-5453

(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000600**Date Inspected:** 04-May-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 0**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 12**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai

<b>Quality Control Contact:</b>	ABF Paint Supervisor William (Bill) Oak			<b>Quality Control Present:</b>	<b>Yes</b>	<b>No</b>	
<b>Material transfer:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Sampled Items:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Stock Transfer:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>OK to Cut:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Rebar Test Witness:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Delayed/Cancelled:</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>Other:</b>	Surface Preparation and Coatings Application						
<b>Bridge No:</b>	34-0006			<b>Component:</b>	OBG 1BW, 2AW, CB 3		
<b>Bid Item:</b>	77,78,79,80			<b>Lot No:</b>	B226		

**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Donald Jordan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

The following inspections were performed by Caltrans QA Coatings Inspector Jordan, American Bridge/Fluor Enterprises, a JV (ABF) Paint Supervisor William (Bill) Oak, ABF QC Zhou Qun Song (Joe), ABF QC David Duon, ABF QC Shi Zhaoyuan (Stone), ABF QC Zhou Wei, International Paint (IP) Onsite Technical Services Engineer (OTSE) Peng Zi Li, IP OTSE Alpha Chen, Zhenhua Port Machinery Company, LTD (ZPMC) QC Manager Xia Yong, ZPMC QC Zhang Diang, ZPMC QC Dong Yao Fei and ZPMC QC Guo Wan Li.

**OBG 2AW**

Caltrans QA Coatings Inspectors received a Notice of Inspection to attend a joint inspection with ABF and ZPMC QC for surface preparation by abrasive blasting on OBG 2AW.

OBG 2AW was not prepared according to contract requirements. Several spots were marked for grinding repairs. There were several spots that required further abrasive blasting before they would meet the visual SSPC SP 10 surface cleanliness requirements.

The spots were marked up using chalk and soapstone by QC and QA personnel. The contractor began to re-blast the segment. After the base metal was prepared to meet the contract requirements, Interzinc 22 primer was applied within the specified 8 hour window after the start of abrasive blasting. The coating was mixed under the supervision of Caltrans QA Coatings Inspector Jordan, International Paint's Onsite Technical Services Engineer Peng Zi Li and QC personnel representing ABF and ZPMC.

---

## SOURCE INSPECTION REPORT

( Continued Page 2 of 3 )

---

### CB 3

Caltrans QA Coatings Inspectors received a Notice of Inspection to attend a joint inspection with ABF and ZPMC QC for checking the interior and exterior surfaces after degreasing. Several spots of what appeared to be oil or grease were identified and pointed out to ZPMC personnel. The spots were solvent cleaned to remove deleterious materials.

### OBG1BW

Caltrans QA Coatings Inspectors received a Notice of Inspection to attend a joint inspection with ABF and ZPMC QC to perform adhesion testing on OBG 1BW.

Adhesion testing was performed in accordance with the requirements in ASTM Designation: D 4541. The pull test met the contract requirements of having a minimum adhesion to steel of 4 MPa.

### Miscellaneous

ABF Paint Supervisor Bill Oak arranged a walk through of the OBG Lift Assembly Area with ZPMC's Manufacture Department Director Engineer, Zhu Qi Jiang to make him aware of the amount of coating damage being inflicted after finish coatings have been applied during assembly. He was not happy with what he saw and said he would contact the fabrication department. Caltrans QA Coatings Inspector Jordan and Caltrans Structural Materials Representative (SMR) Andrew Ferng were invited to accompany Mr. Oak and Mr. Jiang. Mr. Jordan and Mr. Ferng gratefully accepted the invitation.

Fabrication on assembled components of the OBG's are not complete. Coating damage requiring re-blast is expected.



### Summary of Conversations:

There were no relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh (China) +8613472477571, who represents the Office of Structural Materials for your project.

---

## SOURCE INSPECTION REPORT

( Continued Page 3 of 3 )

---

<b>Inspected By:</b>	Jordan,Don	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

---